

LENGTH OF PRG

00357

1 IDENT TVHNDLR
2 ****
3 * THIS ROUTINE IS THE CRT (CDC 3290 C/D OR 3290-2) DRIVER
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11 ***
12 MACRO LABEL,,FUNCTION
13 NAME ISSUE
14 \$LABEL ENA \$FUNCTION
15 RTJ SEL
16 END ISSUE THE FUNCTION
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18 00275 P ENTRY TVCON
19 00000 P ENTRY TVINIT
20 00054 P ENTRY TVINT
21 00073 ENTRY TVREAD
22 00335 P ENTRY TVTABLE
23 00075 ENTRY TVWRITE
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27 EXT BIT18
28 EXT BIT19
29 EXT BIT21
30 EXT CMBITS
31 EXT CMCODE
32 EXT CMQSET
33 EXT CONNECT
34 EXT CONTROLA
35 EXT CR
36 EXT CREATE
37 EXT IOCLEAR
38 EXT LUNLIST
39 EXT NBIT21
40 EXT NTIVWAIT
41 EXT PCHARS
42 EXT PSABLK
43 EXT SYSCM
44 EXT SYSCODE
45 EXT TERMINAL
46 EXT TVBLOCK
47 EXT TVNE
48 EXT TVUNIT
49 EXT UNCON
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01400	51	CMODE	EQU	14008	CONTROL MODE INDICATOR
01414	52	FMCODE	EQU	14148	FILE MARK INDICATOR
00022	53	EOP	EQU	228	FUNCTION FOR EOP INTERRUPT
00023	54	REOP	EQU	238	RELEASE EOP INTERRUPT
07773	55	UINT	EQU	7773B	
00000	56	IMPURE	EQU	0	
00000	57	IO	EQU	0	
00010	58	RESET	EQU	108	FUNCTION FOR RESET
00000	59	SELECT	EQU	0	
00026	60	STINT	EQU	268	FUNCTION FOR INTERRUPT ON SEND
00027	61	RSTINT	EQU	278	RELEASE INTERRUPT ON SEND
00001	62	X1	EQU	1	
00002	63	X2	EQU	2	
00003	64	X3	EQU	3	
00001	65	BLK	EQU	X1	
00003	66	PSA	EQU	X3	
00073	67				
00075	68	TVREAD	EQU	738	INPC
00120	69	TVWRITE	EQU	758	OUTC
	70	TPVFAREA	EQU	1208	STATE FIVE

73 *
 74 * SECTION TO INITIATE OPERATION ON BOOB TC08
 75 *
 76 * ENTER WITH THE FOLLOWING SEQUENCE:
 77 * ENI REQUEST,X1 TVREAD OR TVWRITE
 78 * ENI RETURN,X2
 79 * ENI PSA POINTER,X3
 80 * ENQ WORD COUNT
 81 * ENA FWA
 82 * UJP TVINIT
 83 *

00000	77730000	85				
00001	13000002	86	TVINIT	VFD	A12/DINT	
00002	46000051 P	87		SHAQ	2	
00003	53040000	88		SCHA	FWA	ADD WORD COUNT
00004	46000050 P	89		AQA		
00005	53100000	90		SCHA	LWA	
00006	42000240 P 00050 0	91		TIA	X1	
00007	20377777 X	92		SACH	LWA	REQUEST CODE TO A
00010	12077760	93		LDA	TERMINAL,PSA	LOAD THE TERMINAL NUMBER
00011	05600001	94		SHA	-15	
00012	14677777 X	95		ASG	1	SKIP IF NOT THE PHANTOM
00013	14100007	96		ENA	TVBLOCK	
00014	21100337 P	97		ENI	7,X1	8 EQUIPMENTS / CHANNEL
00015	03600017 P	98		LDQ	TVTERMIN,X1	
00016	02500014 P	99		AQJ, GE	*+2	
00017	03400016 P	100		IJD	*-2,X1	
00020	16577777	101		AQJ, EQ	*-1	
00021	53040000	102		XOQ, S	777778	GET THE PROPER UNIT NUMBER
00022	44000025 P	103		AQA		SAVE THE UNIT NUMBER
00023	14600014	104		SWA	TVIO	
00024	01000270 P	105		ENA	TVIOBIT+TVIOXBIT	
		106		UJP	CON	
00025	15600000	107				
00026	42001470 P 00316 0	108	TVIO	XOA	IMPURE	FORM THE CONNECT CODE
00027	44000037 P	109		SACH	UIOFLAG	SET THE FLAG
00030	44000241 P	110		SWA	TVIOCON	SAVE THE CONNECT CODE FOR LATER
00031	53700000	111		SWA	RESETCON	SAVE FOR RESETTING THE SCREEN
00032	14600022	112		TAI	X3	CONNECT CODE TO X3
00034	14600027	113		ISSUE	EOP	SELECT END OF OPERATION INTERRUPT
00036	14300004	114		ISSUE	RSTINT	RELEASE STATION INTERRUPT
00037	77000000	115		ENI	4,X3	
00040	02700037 P	116	TVIOCON	CON	IMPURE, IO	
00041	05300001	117		IJD	*-1,X3	
00042	01000062 P	118		ISG	1,X3	IGNORE THE FINK IF NO CONNECT
00043	14300024	119		UJP	TVINTA	
00044	77511377	120		ENI	20,X3	
00045	14600005	121		CILO	377B	
00046	77100010	122		ENA	TPPFAREA/2 ⁴⁴	RELOCATION FOR THE I/O
00047	02700044 P	123		SEL	RESET, SELECT	
00050	00000000	124		IJD	*-3,X3	
00051	04400000	125		VFD	A6/IMPURE,01/0,C17/IMPURE	I/O INSTRUCTION
00052	01000050 P	126	LWA	VFD	A3/IO,04/11,C17/IMPURE	CH INT WITH WC CONTROL
00053	01200000	127	FWA	UJP	*-2	REJECT
		128		UJP	0,X2	EXIT

00054	53300000	130	TVINT	EQU	*	ENTER HERE ON DISPLAY INTERRUPTS
00055	53600000	131		TIA	X3	RETURN ADDRESS TO X2
00056	53100000	132		TAI	X2	
00057	12077774	133		TAI	X1	INTERRUPT CODE TO (A)
00060	53500000	134		SHA	-3	
00061	77730000	135		TAI	X1	EQUIPMENT NUMBER BACK TO X1
00062	20100347 P	136		VFO	A12/DINT	
00063	17600005	137	TVINTA	LDA	STATUS,X1	LOAD THE STATUS WORD
00064	03100115 P	138		ANA	EXITBITS	DO WE HAVE ANY UNFINISHED
00065	14600003	139		AZJ,NE	DSNS	BUSINESS JUMP IF SO
00066	01000270 P	140		ENA	SINTBIT+SINTXBIT	ENTER THE PROPER BITS
		141		UJP	CON	
		142				
00067	14300004	143	STATINT	EQU	*	
00070	44000071 P	144		ENI	4,X3	
00071	77000000	145		SWA	*+1	
00072	02700071 P	146		CON	IMPURE,IO	CONNECT TO THE PROPER CONTROLLER
00073	05300001	147		IJD	*-1,X3	
00074	01000275 P	148		ISG	1,X3	
00075	77511377	149		UJP	TVCON	IGNORE FAKE INTERRUPTS
00076	14600325 P	150		CILO	377B	
00077	53140000	151		ENA	CSBUFF	COMPUTE THE ADDRESS OF THE
00100	44000112 P	152		AIA	X1	PROPER CONTROL STATEMENT BUFFER
00101	53700000	153		SWA	STATEWA	AND SAVE IT
00102	15600001	154		TAI	X3	BUFFER ADDRESS TO X3
00103	44000111 P	155		INA	1	
00104	14100012	156		SWA	STATLWA	
00105	11377770	157	77776 0	ENI	10,X1	
00106	40300000	158		ECHA	3777708	GENERATE AN IMPCSSABLE UNIT
00107	77160022	159		STA	0,X3	NUMBER
00110	02500105 P	160		SEL	EOP,SELECT	
00111	74000000	161		IJD	*-3,X1	PERSIST FOR A WHILE
00112	00400000	162	STATLWA	INPW,INT	IO,IMPURE,IMPURE	
	00112 P	163	STATEWA	EQU	STATLWA+1	
00113	01000111 P	164		UJP	*-2	REJECT
00114	01200000	165		UJP	0,X2	EXIT

00115	00115 P	167	DSNS	EQU	*	
00116	17600001	168	ANA	SINTXBIT		IS THIS STATION INTERRUPT EXIT
00116	03000275 P	169	AZJ, EQ	TVCON	JUMP IF NOT	
00117	20100325 P	170	LDA	CSBUFF, X1	LOAD THE WORD WE READ FROM THE	
00120	13077733	171	SHAQ	-12-24	SCREEN AND GET THE UNIT NUMBER	
00121	05500015	172	QSG, S	12+1	HAD THE NEXT THREE LINES BEEN	
00122	05500000	173	QSG, S	0	IN THE CODE ON 11/14/71 THEY	
00123	01000275 P	174	UJP	TVCON	WOULD HAVE PREVENTED SOME CRASHES	
00124	22401564 P	175	LACH	TVTABLE, X1	LOAD THE HIGHEST UNIT NUMBER	
00125	03700275 P	176	AQJ, LT	TVCON	JUMP IF ILLEGAL	
00126	13000030	177	SHAQ	24		
00127	30100337 P	178	ADA	TVTERMIN, X1	FORM THE OS3 TERMINAL NUMBER	
00130	47200216 P	179	STI	CSDRET, X2	SAVE THE RETURN ADDRESS	
00131	47100144 P	180	STI	DSNPSA, X1	SAVE THE EQUIPMENT NUMBER	
00132	14700012 X	180+001	ENQ	TVBLOCK	IS THIS THE PHANTOM TV	
00133	00100136 P	180+002	SJ1	*+3	JUMP TO ALLOW USER TO USE IT	
00134	03500136 P	180+003	AQJ, NE	*+2	JUMP IF NOT PHANTOM	
00135	14600000	180+004	ENA	000	ENTER PHANTOMS TERM NUMBER	
00136	53500000	181	BLK		SAVE TERMINAL NUMBER FOR CREATE	
	00137 P	182	DSNS02	EQU	*	
00137	20177777 X	183	LOA	PSABLK, BLK	LOAD THE PSA ADDRESS	
00140	53700000	184	TAI	PSA	INTO INDEX	
00141	03000144 P	185	AZJ, EQ	DSNPSA		
00142	14477777 X	186	ENA, S	NTVWAIT		
00143	00777777 X	187	RTJ	IOCLEAR	ALLOW OPERATION TO PROCEED	
00144	14200000	188	DSNPSA	IMPURE, X2	ENTER THE CONTROLLER NUMBER	
00145	20200325 P	189	ENI	CSBUFF, X2	LOAD THE WORD WE READ AGAIN	
00146	17607777	190	LOA	77778	LOOK AT THE CHARACTERS WE READ	
00147	04601414	191	ANA		SKIP IF A FILE MARK	
00148	01000156 P	192	ASE	FMCODE		
00150	05300001	193	UJP	DSNFM		
00151	01000216 P	194	ISG	1, PSA	CHECK FOR LOGGED ON	
00152	20077777 X	195	UJP	CSORET	FILE MARK IGNORED IF NOT	
00153	35377777 X	196	LDA	BIT21	LOAD FILE MARK BIT	
00154	01000214 P	197	SSA	CR, PSA		
00155	00156 P	198	UJP	SETCR	GO SET THE CR WORD	
	00156 P	199	DSNFM	EQU	*	
00156	17607700	200	ANA	7700B		
00157	14701400	201	ENQ	CMODE	IS IT A CONTROL STATEMENT	
00160	03400167 P	201	AQJ, EQ	DSNFM02	JUMP IF SO	
00161	04300000	202	ISE	0, PSA	SKIP IF NO ONE LOGGED IN	
00162	01000212 P	203	UJP	SETREAD	GO SET THE READ ALLOWED BIT	
00163	04100132 X	204	ISE	TVBLOCK, BLK	SKIP IT THE CHARACTERS ARE FOR	
00164	01000216 P	205	UJP	CSORET	THE PHANTOM ELSE EXIT	
00165	14100000	206	ENI	0, BLK	THE CHARACTERS ARE FOR PHANTOM	
00166	01000137 P	207	UJP	DSNS02		
	00167 P	208	DSNFM02	EQU	*	
00167	05300001	209	ISG	1, PSA	SKIP IF PSA PRESENT	
00170	01000204 P	210	UJP	BLOGON	NO PSA	
00171	11777777	211	VFD	09/117, A15/CMBITS	ECHA, S 300000E+CMBITS	
00172	00700143 X	212	RTJ	IOCLEAR		
00173	20377777 X	214	LDA	CMCODE, PSA		
00174	03100176 P	215	AZJ, NE	*+2	JUMP IF A REQUEST EXISTS	
00175	14677777 X	216	ENA	CONTROLA		
00176	40300173 X	217	STA	CMCODE, PSA	INDICATE A USER CONTROL-A	
00177	20377777 X	218	LDA	SYSCM, PSA	CHECK FOR IN CONTROL MODE	
00200	03300212 P	219	AZJ, LT	SETREAD	ALL READY IN CONTROL MODE	
00201	14600175 X	220	ENA	CONTROLA	INDICATE A MANUAL ENTRY INTO CM	
00202	00777777 X	221	RTJ	CMQSET		
00203	01000212 P	222	UJP	SETREAD		
	00204 P	223	BLOGON	EQU	*	
00204	14200216 P	224	ENI	CSORET, X2		
00205	00777777 X	225	RTJ	CREATE		
00206	14677777 X	226	ENA	TVUNIT	PLACE BOOB TOCB TYPE IN LUNLIST	
00207	40377777 X	227	STA	LUNLIST, PSA		
00210	20077777 X	228	LDA	BIT18	TV BIT	
00211	34377777 X	229	RAD	SYSCODE, PSA	ADD SYSTEM CODE TO SYSCODE	
	00212 20300154 X	230	SETREAD	LDA	LOAD THE CR WORD	
00213	37077777 X	231	UJA	CR, PSA	CLEAR FILE MARK ON SCREEN BIT	
00214	35077777 X	232	STA	NBIT21		
00215	40300212 X	233	SSA	BIT19	SET READ ALLOWED BIT	
	00216 14200000	234	STA	CR, PSA		
00217	01000275 P	235	CSORET	ENI	RESTORE THE RETURN ADDRESS	
	00218	236	UJP	IMPURE, X2		
	00219	237	CSDRET	ENI		
	00220	238		TVCON		

00220	00220 P	240	TVEXIT	EQU	*	
00221	53700000	241		TAI	X3	CONNECT CODE TO X3
00222	20100347 P	242		LDA	STATUS,X1	DOES THIS CONTROLLER NEED
00223	03100303 P	243		AZJ,NE	CONSrch	ANYTHING ELSE DONE
00224	16300015	244		XOI	15B,X3	GENERATE NON-EXISTANT UNIT NUMBER
00225	47000272 P	245		STI	CONFLAG,0	CLEAR THE FLAG
00227	14600023	246		ISSUE	(REOP)	RELEASE INTERRUPT
00228	14600026	247		ISSUE	(STINT)	REENABLE STATION INTERRUPTS
00231	14300007	248		ENI	7,X3	
00232	20300347 P	249		LDA	STATUS,X3	IS THERE ANYTHING ELSE TO DO
00233	03100272 P	250		AZJ,NE	CONFLAG	JUMP IF SO
00234	02700232 P	251		IJD	*-2,X3	
	00235 P	252	EXITING	EQU	*	
00235	23001470 P 00316 0	253		LUCH	UIOFLAG	DO WE WANT TO EXIT BACK TO UIO
00236	05700001	254		QSG	1	SKIP IF SO
00237	01077777 X	255		UJP	UNCON	
00240	42001470 P 00316 0	256	RESETCON	SACH	UIOFLAG	CLEAR THE FLAG
00241	77000000	257		CON	IMPURE,IO	CONNECT TO THE UNIT
00242	01000245 P	258		UJP	*+3	IGNORE REJECTS
00243	77100010	259		SEL	RESET,SELECT	TRY TO RESET THE SCREEN
00244	14000000	260		NOP	0	DONT WORRY ABOUT PROBLEMS
00245	47200250 P	261		STI	*+3,X2	SAVE THE RETURN ADDRESS
00246	14200250 P	262		ENI	*+2,X2	SET THE RETURN FOR UNCON
00247	01000237 X	263		UJP	UNCON	
00250	14200000	264		ENI	IMPURE,X2	RESTORE THE RETURN ADDRESS
00251	01077777 X	265		UJP	TVNE	
	266					
	267					
	268					

 270 *
 271 * SECTION TO ISSUE CONTROLLER FUNCTION CODES
 272 *
 273 * THIS CODE WILL CONNECT TO DIFFERENT UNITS ON THE CONTROLLER
 274 * UNTIL IT FINALLY ISSUES THE FUNCTION CODE OR UNTIL TWO
 275 * MILLISECONDS HAVE PASSED
 276 *

00252 P	278	REJ	EQU	*	
00253 15300001	279		INI	1,X3	
00254 17307017	280		ANI	07017B,X3	
00255 47300255 P	281		STI	*+1,X3	
00256 77000000	282		CON	IMPURE,IO	TRY ANOTHER CONNECT CODE
00257 14000000	283		NOP	0	
00258 53010022	284		TMQ	228	GET CLOCK AND CHECK TO SEE
00259 15577775	285		INQ,S	-2	IF WE HAVE WAITED LONG
00260 03700264 P	286		AQJ,LT	SEL	ENOUGH
00261 77100000	287	ISUF	IMPURE,SELECT		ISSUE THE I/O FUNCTION
00262 01000252 P	288		SEL	REJ	BAD NEWS, REJECTED
00263 01000000	289		UJP	IMPURE	TO ISSUE SELECT COMMANDS
00264 44000262 P	290	SEL	SWA	ISUF	SAVE FUNCTION CODE
00265 53020022	291		TMA	228	GET THE CURRENT CLOCK
00266 01000252 P	292		UJP	REJ	TRY THE SELECT
00267	293				

00270	35100347 P	295	CON	EQU	*	
00271	40100347 P	296	SSA	STATUS,X1	SET THE BITS INTO THE STATUS	
00272	04000000	297	STA	STATUS,X1	SAVE THE NEW STATUS WORD BACK	
00273	01200000	298	CONFLAG	ISE	HAVE WE CALLED CONNECT	
00274	47200272 P	299	UJP	IMPURE,0		
00275	14100000	300	SII	0,X2	SET THE FLAG	
00276	14701750	301	ENI	CONFLAG,X2	ENTER A CONNECT CODE	
00277	14300277 P	302	ENQ	IMPURE,X1	SAY ONE SECONE	
00300	01077777 X	303	ENI	* ,X3		
00301	14000000	304	UJP	CONNECT		
00302	01200000	305	NOP	0	IGNORE CHANNEL INTERRUPTS	
	00303 P	306	UJP	0,X2	THE CALL WAS QUEUED	
00303	14300003	307	CONSRCH	EQU		
00304	14600010	308	ENI	NUMBITS-1,X3		
00305	14700010	309	ENA	MAXBIT		
	00306 P	310	ENQ	MAXBIT		
00306	14100007	311	SRCHLOOP	EQU	*	
00307	06100347 P	312	ENI	7,X1	8 EQUIPMENTS	
00310	01000322 P	313	MEQ	STATUS,1		
00311	16477777	314	UJP	LOOPEND	DID NOT FIND THAT BIT	
		315	XOA,S	777777B	CLEAR THE BIT	
00312	34100347 P	316	RAD	STATUS,X1		
00313	53100000	317	TIA	X1	EQUIPMENT NUMBER TO A	
00314	12000011	318	SHA	9		
00315	01700316 P	319	UJP,I	*+1,X3	JUMP TO THE PROPER ROUTINE	
		320				
00316	00000220 P	321	UIOFLAG	EQU,C	*	
	00001	322	00	TVEXIT	STATION INTERRUPT EXIT	
00317	00000067 P	323	SINTXBIT	EQU	018	
	00002	324	00	STATINT	STATION INTERRUPT	
00320	00000220 P	325	SINTBIT	EQU	023	
	00004	326	00	TVEXIT	USER I/O EXIT	
00321	00000025 P	327	TVIOXBIT	EQU	048	
	00010	328	00	TVIO	USER I/O	
	00010	329	TVIOBIT	EQU	108	
	00004	330	MAXBIT	EQU	108	
	00005	331	NUMBITS	EQU	4	
		332	EXITBITS	EQU	TVIOXBIT+SINTXBIT	
00322	13077776	333				
00323	02700306 P	334	LOOPEND	SHAQ	-1	
00324	01000235 P	335	IJD	SRCHLOOP,X3		
		336	UJP	EXITING		
00325		337				
00335		338	CSBUFF	BSS	8	
	00337 P	339	TVTABLE	BSS	2+8	
00347		340	TVTERMIN	EQU	TVTABLE+2	
		341	STATUS	BSS	8	
		342	END			

NO LINES WITH ERRORS

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